SZOSTAK, Wiktor B.; ROMANIUK-MICHALSKA, Elzbieta

Effect of ateroid on the level of non-esterified fatty acids in the plasma in nutritional lipemia. Pol. tyg. lek. 20 no.28: 1048-1050 12 Jl 165.

1. Z II Kliniki Chorob Wewnetrznych Studium Doskonalenia Lekarzy AM w Warszawie (Kierownik: prof. dr. med. E. Ruzyllo).

SZOSTAK, WELLER, B.; ROMANIUK-MICHAISKA, Elzbieta

Tase of bronchial cancer with metastases to the heart. Pol. tyg. lok. 20 no.34:1293-1295 23 Ag '65.

1. Z II Kliniki Chorob Wewnetrznych Studium Doskonalenia Lekarzy w AM w Warszawie (Kierownik: prof. dr. med. E. Ruzyllo).

L 62153-65
ACCESSION NR: AP5011486
P0/0026/65/013/001/0057/0064
AUTHOR: Jankowski, J.; Kielek, W.; Romaniuk, Wl. 2.7

TITIE: Type TMP-1 transistor proton magnetometer 10

B

SOURCE: Acta geophysica polonica, v. 13, no. 1, 1965, 57-64

TOPIC TAGS: magnetometer, transistor, transistor proton magnetometer, signal, procession, pulse, pulse compression, pulse counter, pulse generator, frequency, gate, limiting circuit, forming circuit, circuit, control design, signal generator, TMP-1 magnetometer

ABSTRACT: This article describes the design and control measurements of a TMP-1 magnetometer. Particular attention is paid to the induction circuit of the precession signal, inasmuch as it has not yet been adequately developed and causes great difficulties. The electronic circuit that measures the precision frequency is a typical circuit but with a larger number of elements. Particular attention is also paid to the accuracy of the measurements, and sources of error are discussed. The assembly of the magnetometer is shown in Fig. 1 of the Enclosure. After its amplification the precession signal remains in forming circuit UF as a standard

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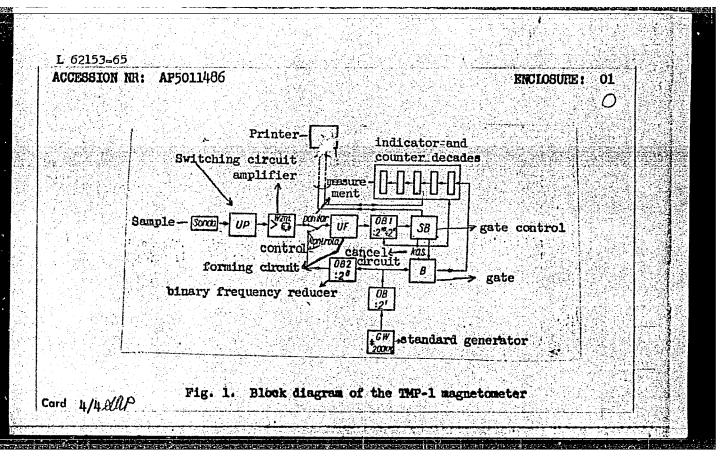
L 62153-65

ACCESSION NR: AP5011486

and a limited pulse. In this form it gets to binary frequency reducer OBl, which is set by a cancel circuit so that the first pulse at its outlet appears after 145 input pulses are received. Thus, two electric pulses separated by 1024 or 2048 periods of input voltage are generated. The first of these pulses is retarded by about 70 msec with respect to the front of the precession signal. These pulses control the control circuit that opens gate B. When the gate is open a series of pulses of 100 kilocycles travel from a standard quartz generator to the inlet of a five-decade electronic counter equipped with an indicator. The number of standard time units (10 μ sec) that elapse between the first and second pulse at the outlet of the binary frequency reducer OBl appears on the indicator. The performance of the magnetometer is controlled by the inclusion of control voltage of a frequency of 1.5625 kilocycles from an additional binary reducer OB2 at the inlet of the limiting circuit and the forming circuit to reduce the standard frequency of 100 kilocycles. For the correct operation of the entire circuit the measurement of 2048 periods of control voltage must amount to 131072 + 1 tenths of a μ sec. Measurements made at observatories, under field conditions, and in water show that the magnetometer is efficient, that the systematic error is of the order of 1γ , that the accidental error is of the order of 0.5γ , and that the measurement time is 6 sec. "The authors thank Engineer Andrzej Rudzki for valuable discussions and cooperation." Orig. art. has: 15 formulas and 6 figures.

Card 2/4

ACCESSION MR: AP5011486			/ }
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ROMANIUK, V.

I jumped from JIG-15. p. 10. ARIPILE PATRIEI. (Asociatia Voluntara pentru Sprijinirea Apararii Patriel) Bucuresti. Vol. 2, no. 8, Aug. 1956. Fueling airplanes during flight. p. 12.

SOURCE: East European Acessions List, (EEAL), Library of Congress, Vol. 5, No. 11, November, 1956.

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"APPROVED FOR RELEASE: 06/20/2000	CIA-RDP86-00513R001445220002-1
ACC NR: AP6029689 AUTHOR: Romaniv, O. N.; Kukiyak, N. L.; Vyval, J. Author: Romaniv, O. N.; Kukiyak, N. L.; Vyval, J. ORG: Physics-Engineering Institute, AN UkrSSR, Livers of the steels of high temperature thermomechanical property and Shkhl. The mechanical property of thermomechanical property and Shkhl. O. 98% carbon) were determined after the control specimen, whereas the strength on the control specimen, whereas the strength on the control specimen, whereas the strength of the control specimen of the control specimen of the control specimen.	clic stress of the steels 9KhS (0.92% carbon)

ROMANIV, O.N.; GNIPOVICH, V.I.

Structural strength of the FS tubular rectangular sections. Vop. mekh. real. tver. tela no.3:192-197 '64.

(MIRA 17:11)

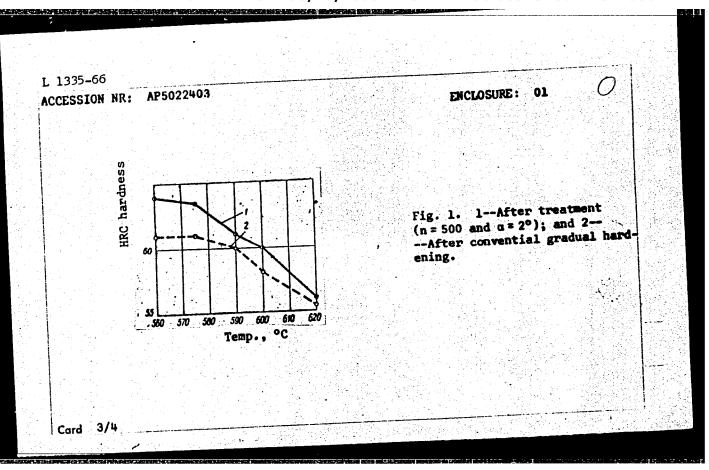
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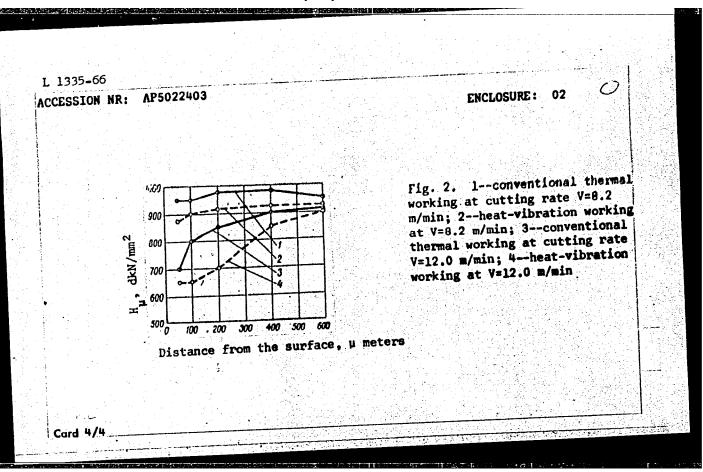
Some mechanical properties of steels treated for high strength. Fiz.-khim. mekh. mat. 1 no.1:40-48 165. (MIRA 19:1)

1. Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov. Submitted October 5, 1964.

A Complex Complex N TW/TD
L 1335-66 EWP(z)/EWT(m)/EWP(b)/I/EWA(d)/EWP(w)/EWP(t) _MJW/JD CCESSION NR: AP5022403 UR/0369/65/000/004/0465/0467
AUTHOR: Výval', I. P.; Romaniv, O. N.; Sakhno, Yu. A. Elists made of R18 steel
TITLE: Effect of heat and vibration treatment on shear strength and endurance of
bits made of R18 steel
SOURCE: Fiziko-khimicheskaya mekhanika materialov, no. 4, 1965, 465-467
TOPIC TAGS: mechanical heat treatment, shear strength, endurance test, steel/ R18 steel
ABSTRACT: R18 steel containing 0.9% C, 18.2% W, 4.1% Cr, 1.1% V, and 0.2% Mo was used in the study. The bits diameter was 9 mm and the drill rod's diameter was 15 used in the study.
mm. The treatment procedure involved head of the treatment equip600°C, cyclic torsional deformation, and quenching in oil. The treatment equip600°C, cyclic torsional deformation, and quenching in oil. The treatment equip600°C, cyclic torsional deformation, and quenching in oil. The treatment equip600°C, cyclic torsional deformation, and quenching in oil. The treatment equip600°C, cyclic torsional deformation, and quenching in oil. The treatment equip600°C, cyclic torsional deformation, and quenching in oil. The treatment equip600°C, cyclic torsional deformation, and quenching in oil. The treatment equip600°C, cyclic torsional deformation, and quenching in oil. The treatment equip600°C, cyclic torsional deformation, and quenching in oil. The treatment equip600°C, cyclic torsional deformation, and quenching in oil. The treatment equip600°C, cyclic torsional deformation is a second to the cyclic torsional deformation is a second torsional deforma
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ITLE: About	one case of mechanic	cal anisotropy of a ther	momechanically worked	15
		hanika materialov, no. 4		
OPIC TAGS:	carbon steel, metal	hardening, mechanical fe	itigue 6	
BSTRACT: H	echanical anisotropy	was studied on high-carl , lworking = 65 mm) were ted to the austenization	on (6082) and UBA steel thermomechanically wo	orked
les. The S	teel samples (00-5 mm eratures; contact-hea	ited to the austenization	temperature, twisted	, and
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300°C. The Fime labse f	rom the beginning of	the mechanical deformat teel deformation was est ing polished samples wit	ion to the quenching vertex of	rela-
	ac. The degree of St	teel deformation was esting polished samples wit	d = 5 and 1	= 1

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ACC NR: AP5022399

= 10 mm. The mechanical properties of steel samples were examined for both direct and inverse load conditions. In the case of 60S2 steel, direct loading up to γ = 0.8 resulted in increased plasticity and strength. Further increase of γ resulted in representation of plasticity and constancy of the steel strength. In the case of U8A steel, direct loading up to γ = 1.5 resulted in an increased metal strength. It was found direct loading up to γ = 1.5 resulted in an increased metal strength. It was found that both "plastification" and "embrittlement" of steel are due to a relief of that both "plastification" and "embrittlement" of steel are due to a relief of shearing strains resulting from direct and inverse loading. The inverse loading shearing strains resulting from direct and inverse loading. The inverse loading shearing strains resulting interstitial cracks. The mechanical anisotropy as well as the increased strength are due to the strains present in the steel samples. The high-temperature thermomechanical working followed by torsional deformation leads to uniform distribution of the lattice dislocations and hardening of the high-carbon uniform distribution of the lattice dislocations and hardening of the high-carbon uniform distribution as seen to the loads employed during the steel working. Orig. art. has: 5 figures, 2 tables.

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UTHOR: Vyv	al', I. P.; Roman	niy, O. M. (Rom An Ukrssk)	aniv, O. N.);	Karpenko, H. V.	(Karpenko,
TITLE: A ne	w method of ther	movibromechanic	al hardening o	f steel /8	31 B
AN I	UkrRSR. Dopovid	li, no. 4, 1965,	, 474-477		
POPIC TAGE:	steel hardening	,, vibration has	rdening, steel	strength, hardne	ess, plasui-
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	"Theory of vibrations" Pryklamekh. 8 no.3:340	by Y.M. Babakov. 341 '62. (Vibration) (Babakov, Y.M.)	Reviewed	by H.V. Karpenko. (MIRA 15:6)	

VYVAL', I.P.; ROMANIV, O.N.

Effect of high temperature cyclic deformation and subsequent hardening on the strength properties of steel. Vlitan. rab. sred na svois. mat. no.3:85-91 '64. (MIRA 17:10)

Fatigue resistance of metals sub ected to two kinds of loading. Vop. mekh. real. tver. tela no.3:179-187	
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	Effect of thermovibromechanical treatment on the mechan ties of steel. Dop. AN UPSE no.4:474-477 165.		
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ACCESSION NR: AP5009280

AUTHOR: Romaniv, O.N.

TITLE: Some mechanical properties of steels subjected to high-strength treatment

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 1, 1965, 40-48

TOPIC TAGS: steel mechanical property, steel strength, steel hardening, thermomechanical treatment, structural steel, tool steel, steel heat treatment, steel plasticity

ABSTRACT: The author analyzes and compares the mechanical properties of structural steels following various types of hardening treatments, particularly thermomechanical treatment (TMT). The analysis is based on data from numerous studies of TMT carried out in recent years, and also published data on the mechanical properties of various steels after different types of heat treatment. The steels considered are structural and tool steels, which are examined in three groups (A) Steels with an equilibrium structure formed on slow cooling from the austenitic state (annealing, normalizing). (B) Steels after thermal hardening by quenching followed by tempering or aging, these are steels with a martensite or bainite structure and a structure formed from the products of their decomposition during tempering. (3) Steels after thermomechanical hardening, i.e., steels with the structure of martensite and products of its tempering, formed from strained austenite.

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ACCESSION NR: AP5009280

The mechanical properties of these three groups of steels are discussed in detail.
Empirical relations are given which express the effect of thermal and thermomechanical hardening of steels treated to various degrees of plasticity. Orig. art. has: 3 figures, 1 table, and 9 formulas.

ASSOCIATION: FMI AN UKrSSR, Lvov

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ACCESSION NR: AT4049943

8/2723/64/000/003/0085/0091

AUTHOR: Vy*val', I.P.; Romaniv, O.N. (Candidate of technical sciences)

1.11

TITILE: The influence of high-temperature cyclic deformation and subsequent annealing on the strength of steel

SOURCE: AN UkrSSR. Fiziko-mekhanicheskiy institut. Vliyaniye rabochikh sred na svoystva materialov, no. 3, 1964, 85-91

TOPIC TAGS: steel strength, steel hardness, hot plastic deformation, cyclic deformation, annealing, titanium alloy, austenite steel/steel 45

ABSTRACT: Recently, the simultaneous high-temperature hammer hardening of austenite with subsequent tempering and annealing has been widely applied for the hardening of steel and titanium alloys (see, e.g., J.C. Shyne, V.F. Zackay, D.J. Schmatz, The strength of martensite formed from cold-worked austenite, Transactions TASM, vol. 52, 1960). Vibrothermal hardening of steel 45 (0.46% C, 0.80% Mn, 0.28% Si, 8 < 0.05%, P < 0.04%) was carried out by applying torsion oscillations to cylindrical (6 = 20 mm) samples. After heating 6-8 min at 840C, the samples were subjected to a periodic load and after the end of such (near-resonant) oscillations the samples were rapidly cooled by an oil jet. Finally, they were annealed in ovens over a period of 2 hours. The results

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are shown in Fig. 1 of the Enclosure. To check the depth to which the procedure was capable of creating a "valuable layer", the authors removed various thicknesses of the outer layers of the samples and examined the integral strength limit. The results are shown in Fig. 2 of the Enclosure. The authors assume that the cyclic deformation of austenite results in increased density of the defective dislocational structure which, during the rapid cooling of the samples, becomes fixed in the martensite form of the steel. Orig. art. has: 4 figures and 1 formula.

ASSOCIATION: none

SUBMITTED: 20Jun63

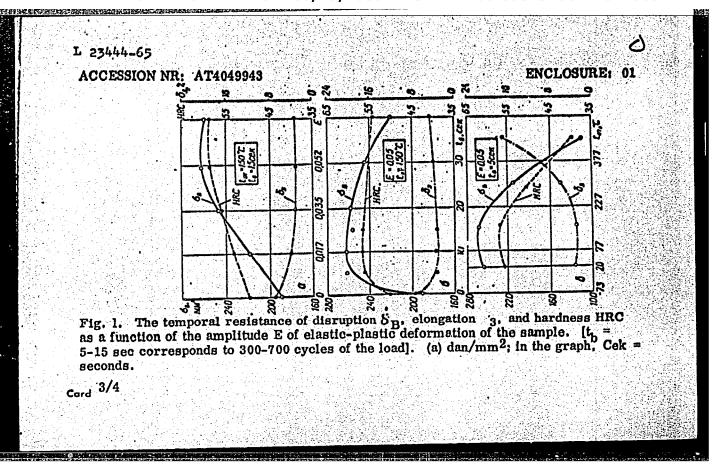
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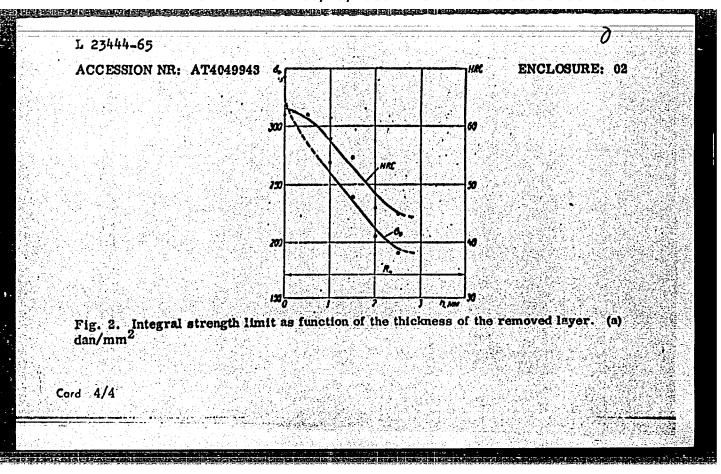
SUB CODE: MM

NO REF SOV: 005

OTHER: 003

Card 2/4





(Vibration)	Qu fr	uasi-harmonic vibrations in systems with several reedom. Nauch.zap.IMA AN URSR.Ser.mashinoved. 9:	degrees of :161-167 '62 (MIRA 15:12	2)
		(Vibration)		
		경기 이 경기에 들어 있다. 등 경기는 하기 되자 하는 날 중에 있는 사고 환경 등 기계를 하고 있는 것이 되었다.		

\$\124\63\000\001\076\080 D234/D308

AUTHORS:

Romaniv, U.N. and Ratych, L.V.

TITLE:

A machine for testing in slow elastic-plastic cyclic

torsion

PERIODICAL:

Referativnyy znurnal, Mekhanika, no. 1, 1963, 77, abstract 1V600 (In collection: Mashiny i pribory dlya ispytaniy metallov. Kiev, AN SSSR, 1961, 32-34)

The authors describe an installation for fatigue testing in torsion with small number of cycles, with recording of the stresses and deformations of the specimen by an oscillograph. Loading is performed by means of a crank mechanism, with constant amplitude of deformations (rigid loading). Abstracter's note: Complete translation 7

Card 1/1

	Action IMA AN	of internal-friction URSR. Ser.mashinoved.	forces in high-spec 7 no.7:148-153 (Shafting)	ed shafts '61.	. Nauch.zap (MIRA 15:1)	
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Romaniv, O.N., (L'vov)

TITLE:

Flexural Vibration of a Shaft With a Disc Having

Unequal Equatorial Moments of Inertia

AUTHOR:

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Mekhanika i mashinostroyeniye, 1960, No. 6,

pp. 98-104

The gyroscopic effect of an overhung asymmetric heavy TEXT: disc on the flexural vibrations and critical speeds of a shaft with unequal stiffnesses is considered, under the effect of static and dynamic unbalances of the disc and of its own weight. disc is mounted at the end of a cantilever shaft and has, for example, the shape of a rectangular slab. The directions of the principal equatorial mass moments of inertia of the disc coincide with the directions of the principal axes of cross-sections of the shaft. Coefficients of asymmetry for the disc inertia and the shaft stiffness are defined. The static unbalance of the disc is defined by the eccentricity of its mass centre and the angle between the direction of eccentricity and one of the axes of Card 1/5

S/179/60/000/006/014/036 E191/E135

Flexural Vibration of a Shaft With a Disc Having Unequal Equatorial Moments of Inertia

symmetry. The dynamic unbalance is defined by the angles between the plane of the disc and the plane at right angles to the undeformed shaft axis. The equations of motion of the geometric centre of the disc, neglecting the friction forces, are formulated for the case of uniform rotation. Two further equations are derived from the law of change of the angular momentum about the centre of gravity of the disc. A new system of coordinates is introduced in order to eliminate periodically varying coefficients. The substitutions transer the equations of motion into the moving system of coordinates. A shaft mounting equivalent to an encastré beam is assumed. The solutions are expressed as exponential functions which lead to a characteristic frequency equation. To facilitate solution, a substitution is used by which the square of the desired frequency and the square of the non-dimensional speed of shaft rotation are added to each other to form a new variable. Fig. 2 shows the frequencies of the free vibrations of the shaft as a function of its rotating speed. The full lines

Card 2/5

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Flexural Vibration of a Shaft With a Disc Having Unequal Equatorial Moments of Inertia

apply to equal, the broken lines to unequal shaft stiffnesses. In the typical case of two-pole generators, the asymmetry coefficients of the disc inertia and the shaft stiffness are of the same order. This is assumed in the example. The regions of shaft rotation where instability occurs are shown. A shaft with a thin disc has a single zone of instability. A shaft with a long body has two zones. When the polar moment of inertia lies between the two equatorial moments, there is a single zone of instability and, in addition, a critical speed. Unequal shaft stiffnesses greatly increase the width of the instability zones. It is shown that, when the axis of the maximum equatorial moment of inertia of the disc coincides with the axis of the minimum shaft stiffness. the effects of instability due to disc and shaft asymmetries cancel each other. The particular solutions of the equations of motion are sought which correspond to static and dynamic unbalances. geometric centre of the disc and the plane of the disc perform circular forced vibrations at the speed of shaft rotation but with Card 3/5

S/179/60/000/006/014/036 E191/E135

Flexural Vibration of a Shaft With a Disc Having Unequal Equatorial Moments of Inertia

a phase shift which depends on the asymmetry coefficients. In the case of the long body, there are two pairs of critical speeds. In the case of the thin disc, there is one pair. In the case of the polar moment of inertia lying between the two equatorial moments, there is one pair and a single critical speed. pairs of critical speeds correspond to the limit points of the angular velocity zones in which the motion is unstable. shows the critical speeds as a function of the asymmetry coefficients. The case of inverse precession is examined. F.M. Dimentberg (Ref.4) has shown that inverse precession can be excited by static or dynamic unbalances in the case of unequal elasticities of the bearing mountings. The excitation of inverse precession is shown to be possible also by asymmetry of the disc with a shaft of equal stiffness. The forced vibrations of the disc through its own weight are analysed. The asymmetry of the disc does not affect gravitational oscillations which depend only on unequal stiffnesses of the shaft.

Card 4/5

S/179/60/000/006/014/036 E191/E135

Flexural Vibration of a Shaft With a Disc Having Unequal Equatorial Moments of Inertia

There are 4 figures and 5 references: 2 Soviet and 3 non-Soviet

ASSOCIATION: Institut mashinovedeniya i avtomatiki AN USSR

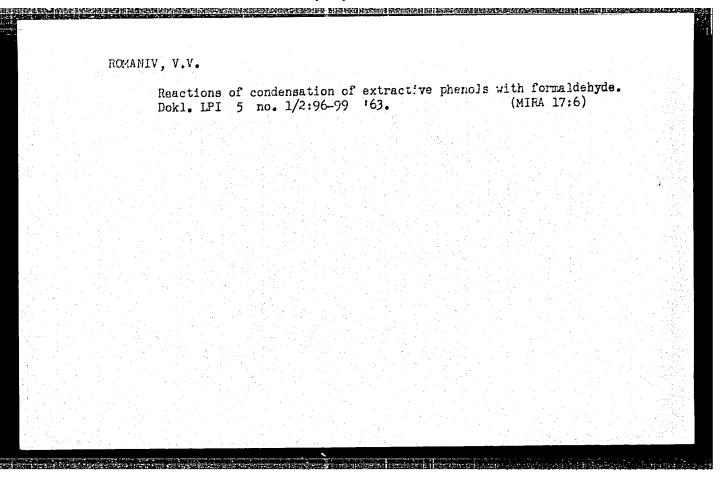
(Institute of Science of Machines and Automatics,

AS Ukr.SSR)

SUBMITTED: May 30, 1960

VC

Card 5/5



impostrial experimental data on the production of combined type synthetic tanning agents. Pokl. 19: 5 no. 1/2:11-12 (MIRA 17:6)	ROHA	NIV, V.V.; BERKMA	M, Ya.i.			
		type synthetic	erimental data on tanning agents.	Boki. LP: 5	no. 1/4:11-14	

DESHALIT, G.I.; SOLDATENKO, I.S.; ROMANIY, Ye.V.

Obtaining coarser ammonium sulfate. Koks i khim. no.8:33-34 '58. (MTRA 11:9)

1. Khar'kovskiy politekhnicheskiy institut (for Deshalit). 2. Khar'kovskiy koksokhimicheskiy zavod (for Soldatenko, Romanii). (Ammonium sulfate) (Coke industry--By-products)

Izv. Akad. Nauk, Otd. Contribution to the Theory of Tekh. Nauk Ejection and the Design (6), 837-855 Calculations of Ejectors June ,1953 (In French) U.S.S.R. P. N. Romanienko Experimentally it has been found that the walls of the expansion chamber do not affect the free expansion of a turbulent jet in an ejector. However, Tollmiens solution for the equations of motion of such a jet give results in agreement with experiment only to a short distance (2-3) diameters) of the outlet section for the nozzle: at 6-7 diameters the deviation is 17-20%. The length of the freeexpansion portion for the jet in the mixing chamber should be 15-25 x diameter of nozzle exit. The process of mixing of two conjoint flows having axial symmetry in analyzed mathematically, yielding equations from which design factors for ejectors can be calculated. The predictions of these equations are in good agreement with experiment. (Bibl. 8) (0. N. E. R. A. Traduction Tech., (90), 23pp., April, 1954, France)

SHARONOV, M.N.; SKLYAR, V.T.; ROMANIV, V.V.

Possibility of using Gorbki bentonites as catalysts for cracking petroleum products. Bent. gliny Ukr. no.1:63-73 '55.

(MIRA 12:12)

1.L'vovskiy politekhnicheskiy institut.

(Transcarpathia—Sentonite) (Catalysts) (Cracking process)

ASC NR: AR6027185 SOURCE CODE: UR/0271/66/000/005/B004/B004

AUTHOR: Romankevich, A. M.; Bychenok, N. N.

TITLE: Certain problems relating to the implementation of arithmetic operations on a computer operating with ten level elements

SOURCE: Ref. zh. Avtomat telemekh i vychisl tekhn, Abs. 5B27

REF SOURCE: Sb. Vopr. teorii elektron. tsifrovykh matem. mashin. Vyp. 8. Kiyev, 1965, 65-75

TOPIC TAGS: computer technique, digital computer, computer design, decimal computer, arithmetic, computer language, multiplication

ABSTRACT: The advantages of the decimal counting system are cited. It is shown that the utilization of ten-level elements whose design is no more difficult than the design of binary elements may reduce the amount of necessary equipment. The formation of radix complement and nine's complement codes is however complicated when the ten-level elements are used. Therefore, it is expedient to use the normal number representation. In this case, the signs of the product and the quotient are determined by the sum of the sign bits of the two numbers. The arithmetic operation sign for the addition of two numbers is the modulo-10 sum of their sign bits and the sign bit of the algebraic operation. A thorough description is given of certain most specific methods of decimal multiplication: multiplication by repeated addition, multiplication

Card 1/2

UDC: 681.142.32.001

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subtract	ion, and mul	tiplication multiplica	by the mult	ciplication on are presented for are presented for a contract of the contract	nted. [Tr	valuations of anslation of	
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L 08588-67 SOURCE CODE: UR/0044/66/000/006/V048/V048 ACC NRI AR6029275 29 . AUTHOR: Romankevich, A. M.; Bychenok, N. N. C TITLE: Certain problems connected with the carrying out of arithmetic operations in machines working with ten positional elements SOURCE: Ref. zh. Matematika, Abs. 6V326 REF SOURCE: Sb. Vopr. teorii elektron. tsifrovykh matem. mashin. Vyp. 8, Kiyev, 1965, 65-75 TOPIC TAGS: arithmetic unit, computer coding, computer design, computer theory ABSTRACT: The simplicity of realization of binary elements and the shortcoming peculiar to the binary systems of calculus quite often induced the designers to leave the decimal calculus and utilize binary-decimal codes although this leads to an increase in size of equipment by some 15—20%. The use of multipositional elements, which in realization complexity are comparable with the binary ones, permits not only to avoid these expenditures but also to reduce the equipment by, for instance, reducing the length of registers. During the utilization of ten-positional elements, a certain complexity of schematic realization of the formation of auxiliary and inverse codes is encountered. For the representation of numbers it is expedient to utilize direct codes; the code of the multiplication and fractional sign is fixed by UDC: 681.142.001

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the sum of the digits of the numbers signs. The sign of the arithmetic operation during the combining of two numbers is determined by the sum over the modulus 10 of the sign codes of the components and the sign code of the algebraic operation. Here it is comparatively simple to materialize the comparison of two numbers if, for instance, the phase pulse representation is utilized. The methods for the carrying out of the decimal composition and subtraction differ very little from the binary ones as far as new ideas and principles are concerned; however, as the result of a more economical representation of numbers their subsequent processing is accelerated. The paper describes in detail certain most specific methods of decimal multiplication. The multiplication by means of consecutive addition (a simplicity of realization at a not too high speed), the multiplication by means of subtraction, and the multiplication using the multiplication matrix. Estimates are given concerning the speed of multiplication for each of the three methods: during parallel summation 10nr, 6nr, and 5nr; for consecutive summation $4.5n^2r$, $2.5n^2r$, and n(n+1)r repsectively, where n is the number of digits of the comultiplier and r the duration of the cycle of addition and shift. Corresponding estimates for analogous binary multiplication (9.9nr and 10.9n2r) permit the comparison of these two methods. [Translation of abstract] 5 illustrations and bibliography of 4 titles. G. Yakobson

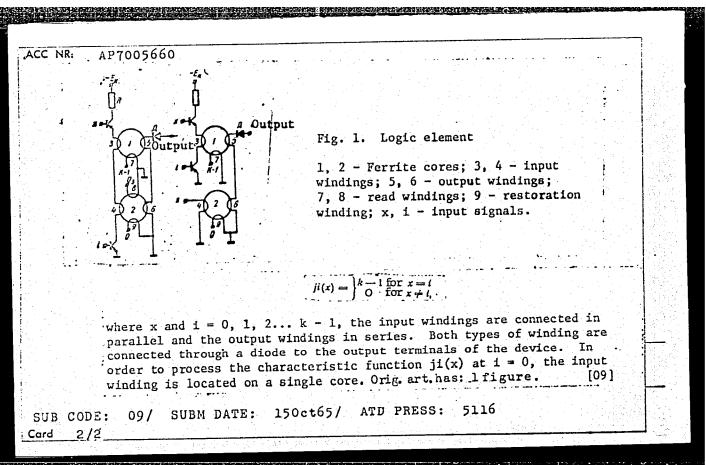
SUB CODE: 09,12

ROMANKEVICH, A.M.

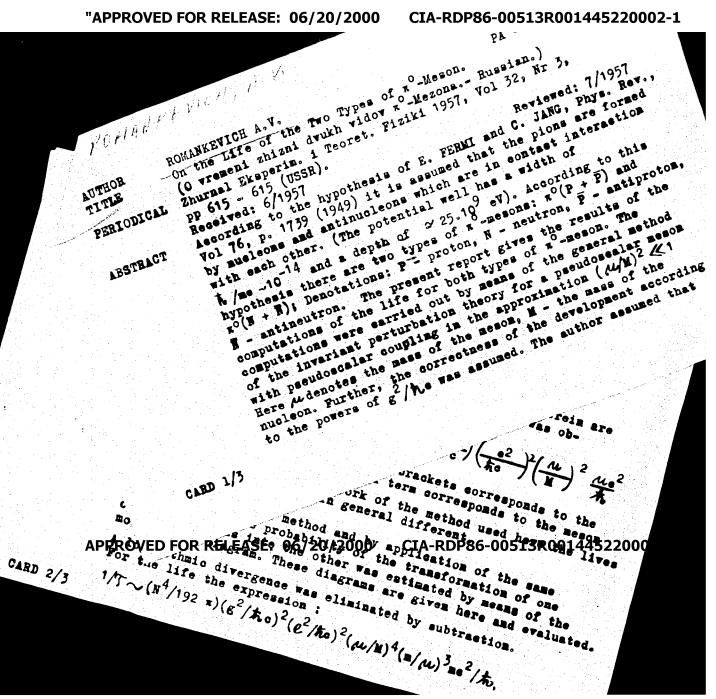
Methods for the minimization of multivalued logic functions. Kibernetika no. 4:38-42 Jl-Ag '65. (MIRA 18:12)

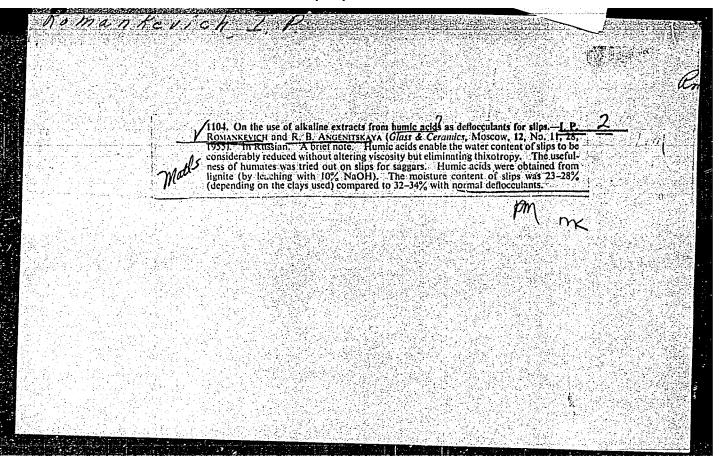
1. Submitted Nov. 21, 1964.

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SOURCE CODE: UR/0413/67/000/002/0177/0118	
INVENTOR: Korneychuk, V.I.; Romankevich, A.M.; Sitnikov, L.S.; Utyakov L.L.	
org: none	
TITLE: Logic element. Class 42, No. 190668 [announced by the Cybernetics Institute, AN UkrSSR (Institute kibernetiki AN UkrSSR)]	
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 117-118	
TOPIC TAGS: logic element, computer circuit, SWITCH WE CIRCUIT, FERRITE CORE MEMORY ABSTRACT:	
A logical element which operates on the basis of pulse-position representation of numbers is introduced (see Fig. 1). It consists of coincidence switching circuits and ferrite cores with read, write, restoration, and output windings. In order to process the characteristic function	
Card 1/2 UDC: 681.142.07	



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	9915. ON THE LIPETIME OF TWO TYPES OF **-MESONS.		
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	1950) two types of warming and rang (Abstr. 2688/	1-W11	
	p = proton, $n = neutron$, $p = antiproton$ and $n = antineutron$. An expression for the lifetimes of these mesons is given. S.Chomet		. 3
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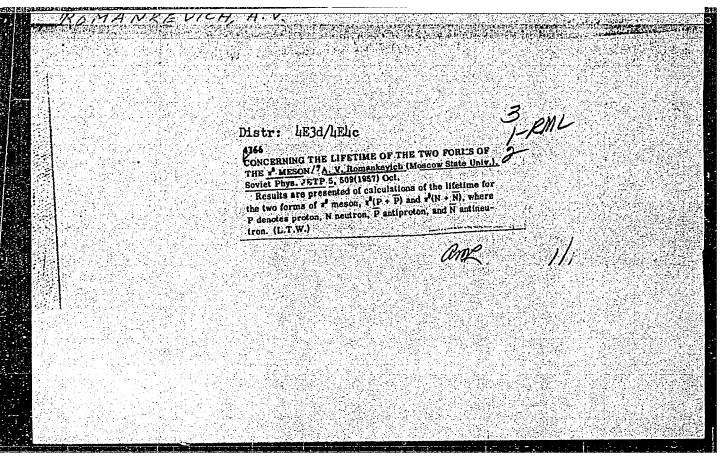
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fiziko-mekhanisha skiye svoyetva. Trudy Kiyavsk. Tekhnol. im-ta
silikatov, T. H. 1949, c. 22 - 32.

36: Letopis' Zhurnal'nykh Stater, Vol 50, Moskva, 1949

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ROMANKEVICH, E.A.; BEZRUKOV, P.L.; LISITSYN, A.P.; PETELIN, V.P.; SKORNYAKOVA, N. S.

Map of the Pacific Ocean Sediments.

Report submitted for the 13th General Assembly, IUGG, (Oceangraphy), Berkeley. California, 19-31 Aug 63.

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AUTHORS:

Romankevich, I.P., Gerasimova, N.A.

72-58-6-12/19

TITLE:

The Influence Exercised by the Addition of Pyrophyllite on the Quality of Capsule Masses (Vliyaniye dobavok pirofillita na

kachestvo kapsel'nykh mass)

PERIODICAL:

Steklo i Keramika, 1958, 11. 1. Nr 6, pp. 40-41 (USSR)

ABSTRACT:

Capsule masses with an addition of types of pyrophyllite found at Zbrankovo were tested. Pyrophyllite possesses a number of valuable technical properties: chemical insensibility to the action of strong acids and alkalies; great resistance to heat; resistance to rupture under pressure of up to 4650 kg/cm² (burning at 1350°); increase of volume by burning up to 1300°; increased thermal conductivity and the capacity of going over into mullite and "kristobalite" (kristobalit) at 1150°. The pyrophyllite of the Zbrankovo occurrence exists in three varieties, the chemical composition of which is shown by table 1. Its resistance to heat varies between 1540 and 1630°. In order to investigate the influence exercised by the types of pyrophyllite upon the properties of the capsule masses experiments were carried out which are described in detail. The samples Nr 14 and 16 with finely ground

Card 1/2

The Influence Exercised by the Addition of Pyrophyllite on the Quality of Capsule Masses

72-58-6-12/19

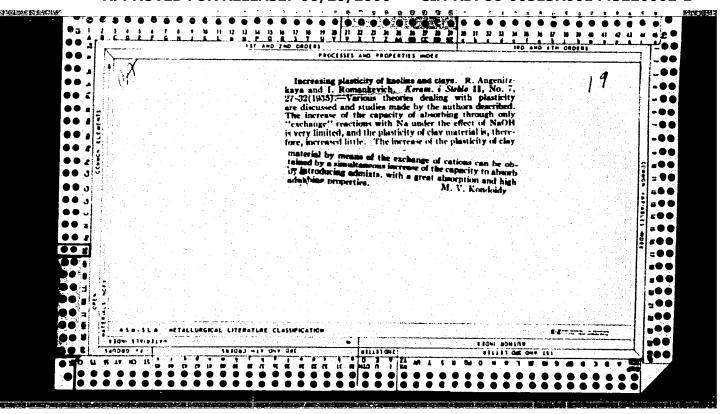
pyrophyllite were found to be the best. Their composition is giver in table 2, and their properties in table 3. The masses of Nr 14 and Nr 16 were tested under conditions such as prevail in the works. The capsules formed from them were found to be much better in operation than those hitherto used. There are 3 tables.

ASSOCIATION:

Kiyevskiy ordena Lenina Politekhnicheskiy Institut (Kiyev Polytechnic Institute of the Order of Lenin)

1. Minerals--Properties 2. Minerals--Test results

Card 2/2



ACC NR: AT7006294

(A)

SOURCE CODE: UR/0000/66/000/000/0068/0075

AUTHOR: Burmistrev, V. T.; Romankevich, M. Ya.

ORG: none

TITLE: High-molecular-weight derivatives of aryl dienes. Chloromethylation of polyphenylisoprene

SOURCE: AN UkrSSR. Sintez i fiziko-khimiya polimerov (Synthesis and physical chemistry of polymers). Kiev, Naukova dumka, 1966, 68-75

TOPIC TAGS: chloromethylation, polyphenylisoprene, methylation, catelyst, isoprene

ABSTRACT: The chloromethylation of polyphenylisoprene was studied by determining the influence of the ratio of the reactants, temperature, solvent, nature and amount of the catalyst, and duration of the reaction on the yield of the chloromethylated product. The chloromethylation process was found to take place as follows:

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CH - C = CH - CH_{2} \\
CH - C - CH_{2} - CH_{3}
\end{array}$$

$$\begin{array}{c}
CH_{5} \\
CH - C - CH - CH_{2} \\
CH_{7} - CH_{9}
\end{array}$$

$$\begin{array}{c}
CH_{5} \\
CH_{7} - CH_{9}
\end{array}$$

Card 1/2

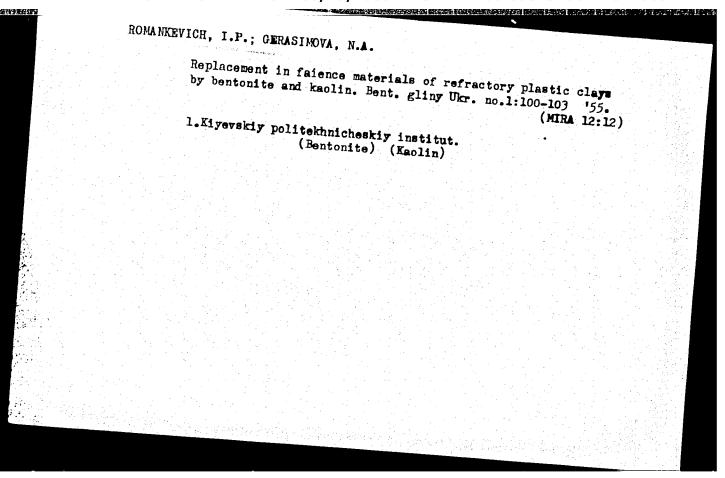
ACC NR: AT7006294

i. e., in addition to the chloromethylation, there is a partial addition of chloromethyl ether to the carbon atoms of the aliphatic chain containing the double bond. The study established that the chloromethylation of linear polyphenylisoprene can be accomplished in 6-8 hr with 15 moles of monochloromethyl ether at 35-40°C in the presence of 0.4-0.6 mole of SnCl4, ZnCl2, or SnCl2 with 70-80% conversion. The chloromethylation of graft (6% DVB) polyphenylisoprene can be carried out in 7-8 hr at the boiling point of monochloromethyl ether in the presence of 0.4-0.6 mole SnCl4 and 15 moles of the ether with 70-80% conversion. Orig. art. has: 4 figures and 2 tables.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 007

Cara 2/2

SOURCE CODE: UR/CO81/65/000/021/S087/S087 HTT(m)/HHT(j)/T ACC NR: ARGOLLISES AUTHORS: Sinyavskiy, V. G.; Koshechkina, L. P.; Romankevich, M. Ya. TITLE: Polystyreneaminoacetic acid as a complexing cation exchanger SOURCE: Ref. zh. Khimiya, Abs. 218541 REF SOURCE: Sb. Metody polucheniya khim. reaktivov i preparatov, Vyp. 10. M., 1964, 93-96 TOPIC TAGS: organic synthetic process, ion exchange resin, copolymer ABSTRACT: A method for the synthesis of complexing amphoteric cation exchangers is developed. Granular copolymer of aminostyrene (20 g) with divinylbenzene was swelled by being kept for 2 hours in 500 ml of lN HCl, then filtered and placed in a reactor fitted with a stirrer, reflux condenser, and dropping funnel. Monochloroacetic acid (80 g, excess of 5 times the required amount) and 600 ml of water were added. The mixture was heated on a steam bath, 20% aqueous NaOH solution was gradually added as the pH of the reaction mixture dropped, maintaining it within 10--12. After completion of the condensation process the mixture is heated for additional 2--3 hours at the above pH. Granules of the cation exchanger are washed with water to neutrality and dried in air, yielding 32.4 g. N. Shamis [Translation of abstract] SUB CODE: 11,07



ROMANKEVICH, I.P.; GERASIMOVA, N.A.

Effect of pyrophillite additions on quality of the sagger mass.

Stek. i ker. 15 no.6:40-41 Je 58.

(MIRA 11:6)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut.
(Saggers) (Pyrophillite)

ROMANKEVICH. I.P.; GERASIMOVA, N.A.

Gasting properties of faience materials with bentonite additives.
Bent. gliny Ukr. no.2:169-177 '58. (MIRA 12:12)

1.Kiyevekiy politekhnicheskiy institut.
(Geramic materials) (Bentonite)

SINYAVSKIY, V.G. [Syniavs kyi, V.H.]; TURBINA, A.I.; ROMANKEVICH, M.Ya. [Romankevych, M.IA.]

Synthesis of n-eminostyrene. Dop. AN URSR no.12:1622-1624 62. (MIRA 16:2)

l. Institut khimii polimerov i monomerov AN UkrSSR. Predstavleno akademikom AN UkrSSR A.I. Kiprianovym.
(Styrene)

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KORNEV, K.A., glav. red.; SHEVLYAKOV, A.S., red.; CHERVYATSOVA, L.L., red.; SMETANKINA, N.P., red.; YEGOROV, Yu.P., red.; RCMANKEVICH, M.Ya., red.; KUZNETSOVA, V.P., red.; PAZENKO, Z.N., red.; KACHAN, A.A., red.; VOYTSEKHOVSKIY, R.V., red.; CREKOV, A.P., red.; DUMANSKIY, I.A., red.; AVDAKOVA, I.L., red.; VYSOTSKIY, Z.Z., red.; GUMENYUK, V.S., red.; MEL'NIK, A.F., red.

[Synthesis and physical chemistry of polymers; articles on the results of scientific research] Sintez i fiziko-khimiia polimerov; sbornik statei po rezul'tatam nauchno-issledovatel'skikh rabot. Kiev, Naukova dumka, 1964. 171 p. (MIRA 17:11)

1. Akademiya nauk URSR, Kiev. Institut khimii vysokomolekulyarnykh soyedineniy. 2. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo AN USSR (for Vysotskiy). 3. Institut khimii vysokomolekulyarnykh soyedineniy AN USSR (for Romankevich, Chervyatsova, Voytsekhovskiy).

SINYAVSKIY, V.J. Symanys kyi, V.J. ; TUBLINA, A.I.; ROMANKE VICH, E.Ja. [Romankevich, M.IA.]

A SEE STORY THE SAME STATE OF THE ORIGINAL PROPERTY OF THE SEED OF

Diametization of granular appolymers of p-aminostyrene with diving the near and their nitrogen coupling with some phenol derivatives. Dop. AN UNISK no.5:613-615 '63. (MIRA 17:9)

1. Institut knimi; polimerov i monomerov AN UkrSSR. Predatavlenc akademikom AN UkrSSR A.l.Kiprianovym.

Polymerization and copolymerization of p-aminostyrene. Plast. massy no.8:63-65 '63. (MIRA 16:8) (Styrene) (Polymerization)	Plast. massy no.8:63-65 '63. (MINA 10:8)			; ROMANKEVICH, M.Ya.		
(Styrene) (Polymerization)	(Styrene) (Polymerization)	Poly Plas	merization and copert. massy no.8:63-6	olymerization of p-aminos, 5 '63.	MIRA 16:8)	
			(Styrene)	(Polymerization)		

RCMANKEVICH, M.Ya.; SINYAVSKIY, V.G.; TSYGANKOVA, M.P.

Synthesis and study of selective polyelectric Report No.1. Ukr.khim.zhur. 28 no.9:1096-109 (MIRA 15:12)

1. Institut khimii polimerov i monomerov AN UrSSR. (Ion exchange resins)

ROMANKEVICH, M.Ya.

Diffusion processes in cationite and the kinetics of ion exchange.
Part 1: Synthesis of the sulfonylphenol cataionite and preparation of homogeneous membranes from it. Ukr. khim. zhur. 24 no.3:325-327 *58.

(MIRA 11:9)

1.Institut organicheskoy khimii AN USSR.

(Phenol) (Membranes (Chemistry)) (Base-exchanging compounds)

ROMANKEVICH, M. YA; GIRKO, I. P.

USSR (600)

Organolites

Determination of capacity of organolites. I. Catonites. Ukr. khim. zhur. 15 no 3, 1949.

Monthly List of Russian Accessions, Library of Congress, September 1952. Unclassified

GOLOVIN, P.V.; ROMANKEVICH, M.Ya.; GIRKO, I.P.

Purification of saturated juice of Jerusalem artichoks by means of organic

所是主义打发出。这一个,"大学,我们是不是不是不是不是不是不是不是不是不是,我们就是这些一种,我们就是这个一个,我们就是一个一个,我们就是这一个一个一个一个一个

ion exchangers. II. Anionites. Ukrain. Khim. Zhur. 15, 281-4 '49. (CA 47 no.22:12689 '53) (MLRA 5:6)

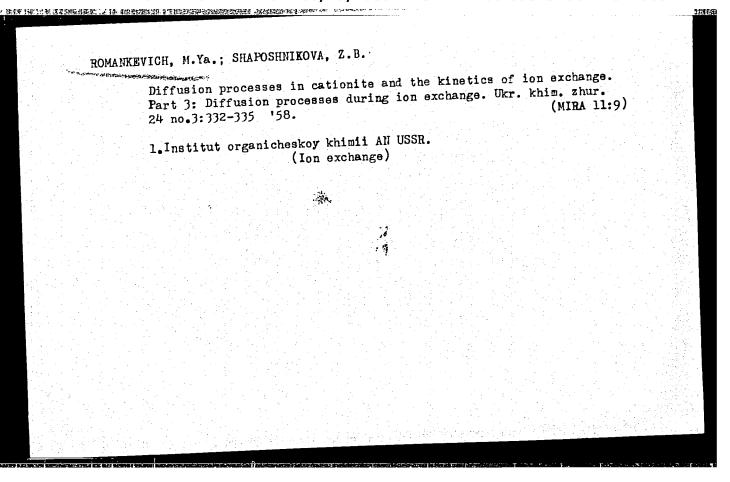
ROMANKEVICH, M.Ya.; SHAPOSHNIKOVA, Z.B.

Diffusion processes in cationite and the kinetics of ion exchange.

Part 2: Effect of electrolyte concentration and nature of the cation on changes in cationite volume. Ukr. khim. zhur. 24 no.3:328-331 '58.

(MIRA 11:9)

1.Institut organicheskoy khimii AN USSR.
(Cations) (Base-exchanging compounds)



ROMANKEVICH, M.Ya.; SHAPOSHNIKOVA, Z.B.

Diffusion processes in cationite and the kinetics of ionic exchange.

Part 4: Redistribution of mono and divalent ions in the internal

layers of cationite. Ukr. khim. zhur. 24 no.4:440-442 158.

(MIRA 11:10)

1. Institut organicheskoy khimii AN USSR.
(Ion exchange) (Chemical reaction, Rate of)

-ROMANKEVICH, M.Ya.

Diffusion processes in cationite and the kinetics of ion exchange. Part 5: Application of ionites suspensions for purification and extraction of substances from solutions. Ukr. khim. zhur. 24 no.4:541-543 *58. (MIRA 11:10)

1. Institut organicheskoy khimii AN USSR.
(Ion exchange) (Extraction (Chemistry))

S/073/62/028/009/007/011 A057/A126

AUTHORS: Romankevich, M. Ya., Sinyavskiy, V. G., Tsygankova, M. P.

TITLE: Synthesis and investigation of selective polyelectrolytes.

Communication I

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, v. 28, no. 9, 1962, 1096 - 1099

TEXT: Selective, polymer ion exchange resins were prepared with the complex forming groups not participating in the formation of the polymer. Thus were obtained nitropolystyrene, aminopolystyrene and products of its azoconjunction with p-cresol, p-nitrophenol, β-naphthol, resorcin, anilide of acetoacetic acid, benzazoresorcin, pyrogallol, 8-oxiquinoline, anilinediacetic acid, 1-acid, benzazoresorcin, pyrogallol, 8-oxiquinoline, anilinediacetic acid, 1-phenyl-3-methyl-5-pyrozalon, salicylic, gallic, anthranilic and chromotropic acid, 2-naphthol-6,8-disulphuric- and 2-naphthol-3,6-disulphuric acid. Some of the prepared ion-exchange resins showed selective properties for several cations as for instance: Fe, Ni, Co, Al, Mg, Zn, Cr. More detailed investigations are carried out at the present time. The capacity of the ion exchange resins was determined after regeneration with 10 - 20% hydrochloric acid solution. The

Card 1/2

Synthesis and investigation of ...

S/073/62/028/009/007/011 A057/A126

regeneration occurs almost quantitatively. Structural formulas of the obtained resins are presented, and the preparation technique is described. The prepared ion exchange resins are insoluble in acids, alkali solutions, and organic solvents. The products with chromotropic and anthranilic acid showed a very strong swelling in water, while those with β -naphthol, anilide of acetoacetic acid and p-cresol showed very low swelling in water. Therefore these two groups were not investigated. There is I table.

ASSOCIATION: Institut khimii polimerov i monomerov AN USSR (Institute of Polymer and Monomer Chemistry AS UkrSSR)

SUBMITTED: August 12, 1961

Card 2/2

GOLOVIN, P. V., HOMANKEVICH, M. YA. GIRKO, I. P.

USSR (600)

Helianthus Tuberosus

Purification of the carbonation juice of Helianthus tuberosus with organolites. II Anionites. Ukr. khim. zhur. 15 No. 3, 1949.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED

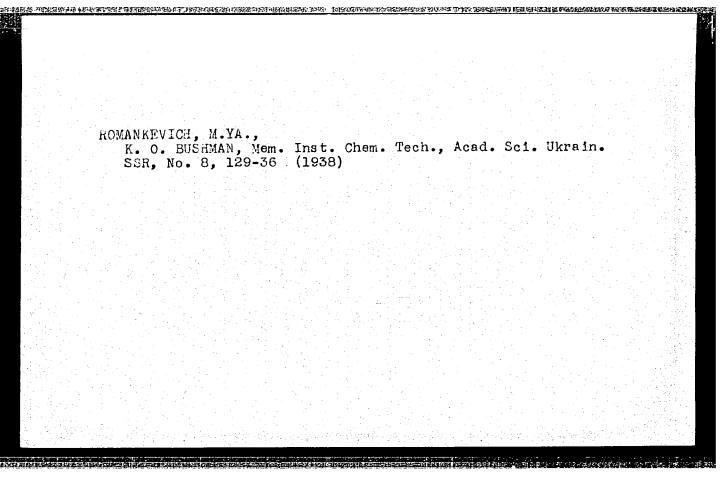
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ROMANKEVICH, M. YA.,
K.O. BUSHMAN, Mem. Inst. Chem. Tech., Acad. Sci. Ukrain.
SSR, No. 8, 129-36 (1938)

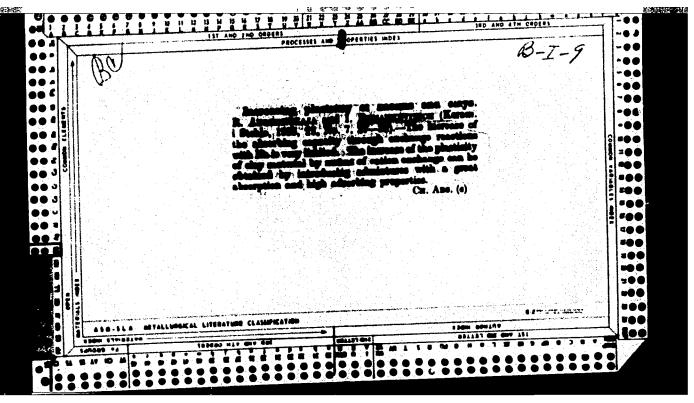
ROMANKEVICH, M. YA.

Romankevich, M. Ya. "Experience in purifying dahlia juices with organolytes", (Obtaining inulin), Ukr. khim. zhurnal, Vol. XIV, Issue 2, 1949, p. 90-92.

SO: U-4302, 19 August 53, (Letoois 'Zhurnal 'nykh Statey, No 21, 1949).



"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445220002-1



89704

24.7700 (1043, 1143,1469)

S/139/61/000/001/012/018 E032/E514

Romankevich, V. N. and Sidyakin, V. G.

TITLE:

AUTHORS:

The Electrical Properties of Selenium Specimens with

Chlorine Impurity, as Functions of Storage Time

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

1961, No.1, pp.130-133

TEXT: A study of the effect of chlorine on the electrical properties of selenium is reported. The selenium specimens with a chlorine impurity were prepared by introducing selenium tetrachloride into amorphous selenium in powder form. The mixture was then compressed and subjected to heat treatment in sealed-off containers at t = 180°C with subsequent cooling to room temperature The selenium tetrachloride was obtained as follows. The selenium (in powder form) was placed in a tube through which chlorine was passed. The selenium was dried by concentrated sulphuric acid prior to the chlorination. On completion of the chlorination process SeCl4 was transferred by distillation into a neighbouring part of the tube, after which the surplus chlorine was removed by blowing dry air over the specimen. The selenium tetrachloride was

Card 1/4

S/139/61/000/001/012/018 E032/E514

The Electrical Properties of

stored in a sealed-off ampoule since it easily decomposes in humid air. The chlorine impurity in the final specimens was between 0.01 and 4% by weight. The specimens were then left for 50 min and their electrical properties were re-measured. The specimens were stored in air in light - tight containers. The results obtained are summarised in Tables 1-4.

									Table 1
% of Cl in	Se	0	0.1	0.	25	ο.	5	1	3
σ·10 ⁻⁶ in ohm ⁻¹ cm ⁻¹ at -	initially	3.6	446	5'	94	47	3	621	1510
cm at 20°C	after ageing	-	36.5	33	. 3	28.	7	139	141
% of Cl in s	Se 0	0.01	0.01	0.25	0.5	1	2		Table 2
α in mV/deg at 46.5°C	initially C	0.71	0.91	0.58	0.66	0.59	0.85	0.79	0.72
Card 2/4	after age-	.59	0.79	0.78		1.06	- -	1.01	-

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445220002-1

The Electrical Pro	operties of .		/139/61/00 032/E514		Table 3
		n	C.V = 3 Cm = 3		Таблица З
	1,C°	42°	51°	60°	70°
	0,001	7,94 1010	1,07-1016	1.15-1014	3,24.10
	0,01	4,57:1016	4,90-1010	3,71.1010	8,13.1014
	0,1	3,55 1015	3,89-1015	2,29.1015	3,31 · 1013
	0,25	2,14-1017	2,19.1017	2.24.1017	3,02-1017
	0,5	7,24 - 1019	8,91.1010	9,33 1010	1,55.1017
		1.66-1017	2,24.1017	2.75 • 1011	4,69-1017
	2	9,33.1015	9,77-101:	8.91.1015	1.44.1016
	3	2.04 1018	2,09-1016	2,75:1016	6,46-1016
	4	3,02.1016	8.71 1015	7.41-1015	1,48-1016
		1.			
Card 3/4					

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001445220002-1

89704

S/139/61/000/001/012/018
The Electrical Properties of E032/E514

的复数形式,这种是一种,我们就是一种,我们也是一种的人,我们就是一个一种的人,我们就是一个一种的人,我们们也是一个一个一个一个一个一个一个一个一个一个一个一个

	<u>u</u>	cmilecc		Таблица 4	Table 4
56 CI t, C°	42°	51°	60°	70°	
0.001	15.8 · 10-2	10,8-10-2	89,4-10-2	26,5.10-2	
0,01	65,0-10-2	59,5.10-2	72,6:10-2	30,1.10-2	
0,1	0,34-10-3	0,39.10-2	.0,72-10-2	0.51.10-2	
0,25	2,26.10-2	2,33.10-2	2,42:10-2	1.98-10-2	
0.5	2,80.10-2	2,29.10-3	3,12-10-2	2,22-10-2	
1	4,25.10-2	3,45-10-2	3,09.10-2	1,94-10-2	
2	0,14.10-2	0,17-10-2	0.24.10-2	0,17.10-2	
3	0,37.10-2	0.32.10-2	0,22-10-2	0.20-10-2	
4	0.19.10-2	0,75.10-2	0,01.10-2	0,56.10-2	

In these tables n is the carrier concentration and u is the mobility. There are 4 figures, 4 tables and 6 references: 4 Soviet, 2 non-Soviet.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Polytech-

nical Institute)

SUBMITTED: February 19, 1960

Card 4/4

5/139/60/000/03/033/045

AUTHORS: Romankevich, V.N. and Sidyakin, V.G.

TITLE: Variability of Electrical Parameters of Selenium Samples

with Bromine Impurity in Dependence on Storage Time

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

1960, No 3, pp 180 - 184 (USSR)

ABSTRACT: A large number of samples with various bromine contents

were stored for 50 months in darkness at room temperature with free air circulation. It was found that the bromine content was markedly reduced but not to zero, so that the

electrical properties changed over very wide ranges,

depending on the initial concentration.

There are 5 figures, 3 tables and 5 references, 1 of

which is German and 4 Are Soviet.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut

(Kiyev Polytechnical Institute)

SUBMITTED: July 6, 1959

Card1/1

ROMANKEVICH, V.N.; SIDYAKIN, V.G.

Electrical properties of selenium tetrabromide. Izv. vys. ucheb.
zav.; fiz. no.4:19-20 '59. (MIRA 13:3)

1.Kiyevskiy politekhnicheskiy institut.
(Selenium bromide--Electric properties)